

PyNoon

Week 1



Thanks

- To the sponsors and host!
- You - for making this a success



Administrivia

- Fire escapes
- Bathrooms
- Cleaning up after ourselves
- WiFi



Introductions

- Instructors
- Helpers
- Attendees
 - Raise your hand if...
 - ...you haven't ever programmed before?
 - ...you haven't programmed in the last year?
 - ...you haven't used Python before?





Why Python?









World's Most Popular Programming Language

Python ends C and Java's 20-year reign atop the TIOBE index



by **Brandon Vigliarolo** in **Developer** 
on October 11, 2021, 6:51 AM PDT

techrepublic.com/article/python-ends-c-and-javas-20-year-reign-atop-the-tiobe-index/

Oct 2023	Oct 2022	Change	Programming Language
1	1		 Python
2	2		 C
3	4		 C++
4	3		 Java
5	5		 C#

“Python, which started as a simple scripting language, as an alternative to Perl, has become mature. Its **ease of learning**, its **huge amount of libraries** and its widespread use in **all kinds of domains**, has made it the most popular programming language of today,” said TIOBE CEO Paul Jansen.



World's Main Teaching Language

- Shallow learning curve - simpler syntax than Java or C++.
- Novices can start writing programs almost immediately.
- Flow of new graduates altering the workforce (in one direction)

Python bumps off Java as top learning language

Eight out of the top 10 universities now use Python to introduce programming



By **Joab Jackson**

U.S. Correspondent, **IDG News Service** | JUL 8, 2014 10:44 AM PDT

infoworld.com/article/2452940/python-bumps-off-java-as-top-learning-language.html



Versatile

- Can use same language for:
 - data science
 - web development
 - automation
 - big data pipelines
- No splintering of teams by language
 - less risk - the team, and new Python hires, can do whatever is needed
 - more efficient - always something interesting for the team to do
 - higher quality code - not mediocre at lots of languages but good at one



What to expect from PyNoon



Course Objectives

- **PyNoon Starter:** Learning the very basics of Python programming
- **PyNoon Data:** Analysing and plotting tabular (spreadsheet) data
- **PyNoon Plus:** Advanced topics, from using AI models to calling web APIs



Course Objectives

- **Along the way:**
 - Not just about getting the right output - we want to help you write *readable* and *maintainable* Python code
- **By the end:**
 - We want you to be solving *your* problems with Python



Lesson Structure

- Times are a guideline - but core will be **12:00pm - 1:00pm**
- **11:30am - 12:00pm** - Independent work and help with homework
- **12:00pm - 12:30pm** - Lunch, networking, and whiteboard lesson
- **12:30pm - 1:00pm** - Follow-along live-coding tutorial
- **1:00pm - 1:30pm** - Independent work
 - Exercises following on from live coding
 - Lessons from **futurecoder.io**
 - Extension exercises from **<https://fullstackpython.com>**
- We recommend completing outstanding work as homework
 - Optional, but recommended to become productive in Python within the 10-week course



Tips For Getting the Most Out of PyNoon



Here to Learn

- As much as humanly possible **don't do emails and work**
 - You'll barely have enough time as it is to become a productive coder
- Even if you're more advanced **do the simple things** (albeit faster)
 - Sometimes there are things you missed the first time or have forgotten



Questions?



Lunchtime!

- Say hello to someone you didn't come with
- Find out what other people want to use Python for
- **The tutorial will start at 12:30**

